

## **Supplemental Material**

### **Urinary Paraben Concentrations and Ovarian Aging among Women from a Fertility Center**

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Supplemental Material, Table S1. Estimated mean percent change in AFC by summed urinary paraben concentration tertile based on Poisson regression model<sup>a</sup>

<b>Summed Paraben Concentration</b>	<b>N</b>	<b>Estimated Mean Percent Change in AFC (95% CI)</b>	<b>p-value</b>
<b>EEQ(parabens)<sup>b</sup></b>			
Tertile 3 (57.3-522)	47	-6.4 (-24.4, 15.8)	0.54
Tertile 2 (19.2-56.9)	48	1.1 (-17.3, 23.5)	0.91
Tertile 1 (0.50-19.0)	47	0 (Reference)	
<i>p-value for trend</i>		0.54	
<b>Sum(parabens)<sup>c</sup></b>			
Tertile 3 (3.09-19.0 µMol/L)	47	-10.8 (-28.2, 10.7)	0.30
Tertile 2 (1.13-3.07 µMol/L)	48	-6.5 (-23.4, 14.1)	0.51
Tertile 1 (0.039-1.12 µMol/L)	47	0 (Reference)	
<i>p-value for trend</i>		0.30	

<sup>a</sup>All model results adjusted for age. Paraben concentrations are SG-corrected.

<sup>b</sup>EEQ is the estrogen equivalency factor approach (sum of molar concentration of paraben times estrogen potency factor).

<sup>c</sup>Molar sum of parabens.

Supplemental Material, Table S2. Estimated mean change in day 3 FSH (IU/L) by summed urinary paraben concentration tertile based on linear regression models<sup>a</sup>

<b>Summed Paraben Concentration</b>	<b>N</b>	<b>Estimated Mean Change in FSH (95% CI)<sup>a</sup></b>	<b>p-value</b>
<b>EEQ(parabens)<sup>b</sup></b>			
Tertile 3 (54.7-522)	37	0.73 (-0.70, 2.16)	0.31
Tertile 2 (22.9-54.0)	37	0.25 (-1.21, 1.70)	0.74
Tertile 1 (0.50-22.3)	36	0 (Reference)	
<i>p-value for trend</i>		0.31	
<b>Sum(parabens)<sup>c</sup></b>			
Tertile 3 (3.25-19.0 µMol/L)	37	0.54 (-0.89, 1.97)	0.46
Tertile 2 (1.31-3.16 µMol/L)	37	0.84 (-0.58, 2.27)	0.24
Tertile 1 (0.075-1.28 µMol/L)	36	0 (Reference)	
<i>p-value for trend</i>		0.46	

<sup>a</sup>The parameters estimates can be interpreted as a IU/L change in day 3 FSH for each tertile in summed paraben urinary concentrations relative to the first tertile. All model results are adjusted for age. Paraben concentrations are SG-corrected.

<sup>b</sup>EEQ is the estrogen equivalency factor approach (sum of molar concentration of paraben times estrogen potency factor).

<sup>c</sup>Molar sum of parabens.

Supplemental Material, Table S3. Estimated mean percent change in OV by summed urinary paraben concentration tertile based on linear regression model<sup>a</sup>

<b>Summed Paraben Concentration</b>	<b>N</b>	<b>Estimated Mean Percent Change in OV (95% CI)</b>	<b>p-value</b>
<b>EEQ(parabens)<sup>b</sup></b>			
Tertile 3 (56.0-338)	36	-13.1 (-32.9, 12.6)	0.28
Tertile 2 (19.2-55.0)	37	9.9 (-15.0, 42.3)	0.47
Tertile 1 (0.62-18.2)	36	0 (Reference)	
<i>p-value for trend</i>		0.28	
<b>Sum(parabens)<sup>c</sup></b>			
Tertile 3 (2.82-19.0 µMol/L)	36	-2.4 (-24.6, 26.4)	0.85
Tertile 2 (0.93-2.74 µMol/L)	37	23.6 (-4.7, 60.4)	0.11
Tertile 1 (0.054-0.93 µMol/L)	36	0 (Reference)	
<i>p-value for trend</i>		0.83	

<sup>a</sup>All model results adjusted for age. Paraben concentrations are SG-corrected.

<sup>b</sup>EEQ is the estrogen equivalency factor approach (sum of molar concentration of paraben times estrogen potency factor).

<sup>c</sup>Molar sum of parabens.